

**Agency: Commerce, Community and Economic Development****Grants to Municipalities (AS 37.05.315)****Grant Recipient: Angoon****Project Title:**

## Angoon - Water Plant Restoration

**State Funding Requested: \$ 43,900**  
One-Time Need**House District: 5 - C****Brief Project Description:**

Identify water leaks, purchase materials for repairing and restoring. Purchase and replace inoperable fire hydrants and provide maintenance to remaining fire hydrants.

**Funding Plan:****Total Cost of Project: \$43,900**Funding Secured*Amount FY*Other Pending Requests*Amount FY*Anticipated Future Need*Amount FY*

There is no other funding needed

**Detailed Project Description and Justification:**

In May 2006, an indetermined mechanical event at the Angoon water treatment plant caused significant damage to the plumbing of all four pressure filters. The system was restored to the best capability, however, due to the lack of funding and equipment, they were only able to restore the water plant to half of its design capacity. The average production of the plant has been 110 gallons per minute/158,000 gallons per day. The original design capacity of the water plant was 230 gallons per minute/331,000 gallons per day.

In the upper zone of Angoon are the Senior Center, City Hall, the Health Clinic, Post Office, and Head Start along with several resedential units. Currently the customers in this upper area have very low water pressure. Those living in the two-story four-plexes must carry buckets of water upstairs to flush their toilets. Another concern is when the water distribution pipes have inadequate pressure, a negative pressure occurs, creating a great chance for disease-causing pathogens to be introduced into the system and contaminate the potable water supply.

During the recent cold weather period, all three Angoon water tanks have become dangerously low which has been noted in an inspection in February 2008. The current production capacity of the water treatment plant is barley able to keep up with the current demand. The water demand is a combination of domestic use and water lost through leaks. Currently, it will take two months or longer, depending upon usage, to fill the water tanks. Until the water tanks are completely filled the water pressure, firefighting ablitily, and teh general health of the community are being compromised.

Immediate action needs to take place as the residents of Angoon are facing serious health and welfare issues due to the condition of their water treatment plant and water distribution system.

**Project Timeline:**

Inspection and repairs to take place as soon as funds are available.

**Entity Responsible for the Ongoing Operation and Maintenance of this Project:**

City of Angoon

**Grant Recipient Contact Information:**

Contact Name: Albert Howard, Mayor

Phone Number: 907-788-3653

Address: P.O. Box 189, Angoon, AK 99820

Email: unavailable

Has this project been through a public review process at the local level and is it a community priority? ☒ Yes ☐ No

## FACSIMILE TRANSMITTAL SHEET

TO:

Kimberly Clark

FROM:

Albert Howard

COMPANY:

City of Angoon

DATE:

Feb. 29-09

TIME:

FAX NUMBER:

TOTAL # OF PAGES INCLUDING COVER:

4

PHONE NUMBER:

907-744-3653

RE:

cell # 957-2143

☐ URGENT ☐ FOR REVIEW ☐ PLEASE COMMENT ☐ PLEASE REPLY ☐ PLEASE RECYCLE

## COMMENTS

Hope this is Every thing.

All material contained in this facsimile is intended for the above named person. If you receive this fax in error please notify the sender at one of the above numbers and destroy this copy. Thank you.



# COMMUNITY HEALTH SERVICES

SouthEast Alaska Regional Health Consortium

222 Tongass Drive, Sitka, AK 99835  
907 966-8710 • [www.searhc.org](http://www.searhc.org)

February 22, 2008

Mayor Albert Howard  
City of Angoon  
PO Box 189  
Angoon, AK 99820

FEB 26 2008

Dear Mayor Howard,

On May 1, 2006, an undetermined mechanical event at the Angoon water treatment plant caused significant damage to the plumbing of all four pressure filters. The SEARHC Remote Maintenance Worker, Phil Downing, assisted two Alaska Native Tribal Health Consortium support personnel in restoring service at the water plant. However, due to the lack of funding and equipment, they were only able to restore the water plant to half of its design capacity. The average production of the plant has been 110 gallons per minute/158,000 gallons per day. The original design capacity of the water plant was 230 gallons per minute/331,000 gallons, per day.

In the upper zone of Angoon are the Senior Center, City Hall, the Health Clinic, Post Office, and Head Start and several residential units and four-plexes. Currently, the customers in this upper area have very low water pressure. Those living in the two-story four-plexes must carry buckets of water upstairs to flush their toilet. Another concern is when the water distribution pipes have inadequate pressure, a negative pressure occurs, creating a greater chance for disease-causing pathogens to be introduced into the system and contaminate the potable water supply.

During a recent cold weather period, all three water tanks became dangerously low. During our inspection, February 19, 2008 all three tanks were still dangerously low. The current production capacity of the water treatment plant is barely keeping up with the current demand. The water demand is a combination of domestic use and water lost through leaks. Currently, it will take two months or longer, depending on usage, to fill the water tanks. Until the water tanks are completely filled the water pressure, firefighting ability, and the general health of the community are being compromised.

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*Your Partner in Health*

Our recommendations are to immediately:

- Identify the location and severity of water leaks and aggressively repair them.
- Purchase materials to repair and restore service to the two pressure filters currently off line at the water plant.
- Purchase new fire hydrants to replace those that are inoperable and leaking.
- Repair and replace the oil, grease, gaskets, o-rings and bolts in the remaining fire hydrants.

In summary, the residents of Angoon are facing serious health and welfare issues due to the condition of their water treatment plant and water distribution system. We cannot emphasize enough the importance of resolving these issues as soon as possible.

Leak detection consultant fees: **\$8,000**

Costs for repairing identified water leaks: **\$1,500** per repair. Machinery, labor, and backfill material would be an additional expense.

Repair two pressure filters **\$30,000** plus labor.

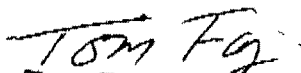
Replacement of the damaged, leaking fire hydrants: **\$1,900**

Materials to repair/rebuild 35 hydrants: **\$2,500**

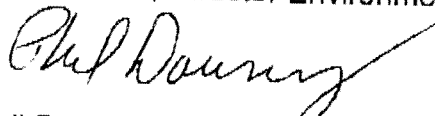
Total estimated cost of repairs, **\$43,900.**

Please do not hesitate to contact SEARHC Office of Environmental Health with questions or concerns.

Sincerely,



Tom Fazzini, Director Environmental Health



Phil Downing, Remote Maintenance Worker